

## ABSTRACT

A crystalline polymer exhibiting crystal transition in the solid phase state, which satisfies the relationship defined by the formula  $150 > \Delta H_{tr} > 1.6T_{tr} - 3.5$  (1) (wherein  $\Delta H_{tr}$  represents the endotherm (J/g) accompanying crystal transition and  $T_{tr}$  represents the crystal transition temperature ( $^{\circ}\text{C}$ )). This crystalline polymer has a weight average molecular weight of 600 thousand or less and a crystal transition temperature ( $T_{tr}$ ) of  $67^{\circ}\text{C}$  or below. Since this crystalline polymer has a low phase transition temperature, a high heat of a crystal transition, and a high melting point, the potential utility thereof as a switching element or a thermal storage material used at around normal environment temperatures (20 to  $50^{\circ}\text{C}$ ) is high.